



Rabbit Anti-Human MCM2 Polyclonal Antibody (CABT-L2150)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Minichromosome Maintenance Deficient 2 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against MCM2. It has been selected for its ability to recognize MCM2 in immunohistochemical staining and western blotting.
Target	MCM2
Immunogen	Recombinant fragment corresponding to human MCM2 (Ile473-Val679)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]
Keywords	BM28;CCNL1;CDCL1;Cdc19;Mitotin;DNA Replication Licensing Factor MCM2;Nuclear protein BM28

GENE INFORMATION

Gene Name	MCM2 minichromosome maintenance complex component 2 [Homo sapiens (human)]
Official Symbol	MCM2
Synonyms	MCM2; minichromosome maintenance complex component 2; BM28; CCNL1; CDCL1; cdc19; D3S3194; MITOTIN; DNA replication licensing factor MCM2; cyclin-like 1; nuclear protein BM28; cell division cycle-like 1; minichromosome maintenance protein 2 homolog; minichromosome maintenance deficient 2 (mitotin); MCM2 minichromosome maintenance deficient 2, mitotin;
Entrez Gene ID	4171
Protein Refseq	NP_004517
UniProt ID	P49736
Chromosome Location	3q21
Pathway	Activation of ATR in response to replication stress; Activation of the pre-replicative complex; Assembly of the pre-replicative complex; Cell Cycle; Cell Cycle Checkpoints; Cell Cycle, Mitotic; Cell cycle; DNA Replication;

Function

ATP binding; DNA binding; DNA helicase activity; DNA replication origin binding; histone binding; metal ion binding; protein binding;
